

Claims

[c1] 1. A spring element configured to transmit compression forces and tensile forces between a vehicle frame and a wheel axle that are movably arranged with respect to one another, said spring element comprises:

 a rubber body;

 a mechanical connection member that extends through the rubber body and is arranged to limit the distancing movement between the vehicle frame and the wheel axle, said connection member comprises a coupling device for coupling the connection member to at least one of the vehicle frame and the wheel axle; and

 the coupling device further comprises a first stub with a threaded portion protruding from the spring element, the first stub including fixing means for obtaining a rotationally fixed, form-fit on said at least one of the vehicle frame and the wheel axle.

[c2] 2. The spring element as recited in claim 1, wherein said transmittal of forces is effected between the wheel axle and an end of a bogie beam pivotably mounted to the vehicle frame.

[c3] 3. The spring element as recited in claim 1, wherein said

fixing means further comprises a bevel configured to co-operate with a corresponding bevel (20) arranged on said at least one of the vehicle frame and the wheel axle thereby enabling said form-fit.

- [c4] 4. The spring element as recited in claim 1, wherein an axis of symmetry of said threaded portion substantially coincides with an axis of symmetry of said rubber body.
- [c5] 5. The spring element as recited in claim 4, wherein said first stub comprises a conical portion.
- [c6] 6. The spring element as recited in claim 4, wherein said threaded portion further comprises a second stub with external threads and which protrudes from the spring element.
- [c7] 7. The spring element as recited in claim 1, wherein said threaded portions of the respective first and second stubs are configured to cooperate with a threaded element when coupled to a respective vehicle frame or wheel axle.